



**ASTM D6938 In-Place Density and Water Content of Soil and
Soil-Aggregate by Nuclear Methods (Shallow Depth)**

Project: FTW 405 Range Control
Fort Wainwright, AK
Client: Cornerstone General Contractors

Project #: 2025-091
Date: July 16, 2026
Area Tested: Central Slab/ Retaining Wall

Material / Source:
Pitrun/ Range Pit 143.8

Gauge: Instrotek 3500
Operator: Ben Marth
Ser: # 1548

Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
1	pitrun	12"	FG	FP7 Central Slab	149.0	5.1	141.8	143.8	98.6%	95%
2	pitrun	12"	FG	FP7 East Retaining Wall Footing	144.2	5.1	137.2	143.8	95.4%	95%
3	pitrun	12"	FG	FP7 West Retaining Wall Footing	143.2	3.3	138.6	143.8	96.4%	95%
4	pitrun	12"	FG	FP8 Central Slab	147.7	3.2	143.1	143.8	99.5%	95%
5	pitrun	12"	FG	FP8 East Retaining Wall Footing	145.2	4.3	139.2	143.8	96.8%	95%
6	pitrun	12"	FG	FP8 West Retaining Wall Footing	149.0	4.0	143.3	143.8	99.6%	95%
7	pitrun	12"	FG	FP9 Central Slab	142.2	3.9	136.9	143.8	95.2%	95%
8	pitrun	12"	FG	FP9 East Retaining Wall Footing	147.1	4.2	141.2	143.8	98.2%	95%
9	pitrun	12"	FG	FP9 West Retaining Wall Footing	142.9	4.3	137.0	143.8	95.3%	95%
10	pitrun	12"	FG	FP10 Central Slab	143.5	3.3	138.9	143.8	96.6%	95%
11	pitrun	12"	FG	FP10 East Retaining Wall Footing	148.0	4.6	141.5	143.8	98.4%	95%
12	pitrun	12"	FG	FP10 West Retaining Wall Footing	147.9	3.6	142.8	143.8	99.3%	95%
13	pitrun	12"	1	Duct Bank across 800m road	149.2	6.1	140.6	143.8	97.8%	95%
14	pitrun	12"	2FG	Duct Bank across 800m road	144.5	5.3	137.2	143.8	95.4%	95%
15	pitrun	12"	1	Duct Bank across CL road at 800m	149.8	6.5	140.7	143.8	97.8%	95%
16	pitrun	12"	2	Duct Bank across CL road at 800m	147.4	4.3	141.3	143.8	98.3%	95%
17	pitrun	12"	3	Duct Bank across CL road at 800m	149.2	5.9	140.9	143.8	98.0%	95%
18	pitrun	12"	4FG	Duct Bank across CL road at 800m	146.1	4.6	139.7	143.8	97.1%	95%

Approved By: Stefan Mack Stefan Mack PE, Lab Manager